

SATEL Compact-Proof

Wireless World – Local Solution

SATEL Compact-Proof is a versatile data radio modem with rechargeable battery. It is based on SATELLINE-EASy and provides a compact and flexible solution for a wide range of applications. This portable radio modem has easy user interface with display. IP67 classification guarantees durability.



3D picture

Setting up a local data transfer network is quick and cost effective with SATEL radio modems. The wireless network is independent and free of operator services. The cost of operation is either free of charge or fixed, depending on the frequency used. SATELLINE radio modems are type-approved in over 50 countries.

SATELLINE radio modems are always on line and provide reliable, real-time data communications over distances ranging from tens or hundreds of metres up to around 80 kilometres. Thanks to a store and forward function, any radio modem in a network can be used as a master station, substation and / or repeater.

SATELLINE radio modem networks are flexible, easy to expand and can cover a wide variety of solutions from simple point-to-point connections to large networks comprising hundreds of modems. Even for expanded networks, only one operating frequency is required.

For the latest information, please visit www.satel.com

Available as:

VHF
▶ UHF
Licence free
NMS
▶ IP67

Product type:

▶ Classic
Smart
OEM

SATEL

SATEL Compact-Proof

SATEL Compact-Proof is IP67 classified product that is based on SATELLINE-EASy. It is equipped with rechargeable battery that can be easily replaced if necessary.

The lithium-ion battery provides a long lasting performance and plenty of operating hours. The operating time in +25°C is more than 15 h (50% duty cycle@1 W).

12.5, 20 and 25 kHz channel widths are software-selectable. The modem has a wide 90 MHz / 70 MHz tuning range and the operation frequency can be selected within the range 330...420 and 403...473 MHz. It is compatible with SATELLINE-modems.

There are three attachment options available. You can select a backplate that can be attached with screws to any surface, an aluminium hook or belt loops.

Technical Specifications

The equipment complies with the EN 300 113-2, EN 301 489-1, -5 and EN 60950-1 specifications.

	SATEL Compact-Proof
Frequency Range	330...420 MHz / 403 ... 473 MHz
Channel Width	12.5 kHz / 20 kHz / 25 kHz (Selectable)
Tuning Range	90 MHz / 70 MHz
Adjacent Channel Power	< -60 dBc
Sensitivity BER < 10E-3 (FEC ON)	-114 dBm @ 12.5 kHz -111 dBm @ 25 kHz
Adjacent Channel Selectivity (FEC ON)	> 47 dB @ 12.5 kHz > 52 dB @ 25 kHz
Data Speed of Radio Interface	19200 bps (25 kHz channel), 9600 bps (12.5 / 20 kHz channel)
Power Consumption Save Modes	< 1.2 W (Receive) < 7 W (Transmit 1 W) Sleep: 0.12 W / DTR: 10 mW
Max. time of operation	+ 60 °C (1 W) 13 h + 60°C (50% TX/RX ratio@1 W) 22 h - 20 °C (1 W) 10 h - 20 °C (50 % TX/RX ratio@1 W) 15 h - 20 °C RX 44 h
Battery capacity and type	7.2 V, 8700 mAh Li-Ion
Charging current	1.6 A
Charging time (empty to full)	5.5 h @ + 25 °C
Charging voltage	DC +9 – + 16 V
Power connector	4-pin ODU MINI-snap size 1
Modulation	4FSK, GMSK
Carrier Power	100, 200, 500, 1000 mW
Frequency Stability	< 1 kHz
Spurious Emission	< -100 dBm (RX), < -80 dBm on 3rd harmonics @ 1215 - 1240 MHz (TX)

GENERAL	
Blocking (FEC ON)	> 86 dB
Selectivity at ±50 kHz	> 67 dB
Frequency Stability	< 1 kHz
Type of Emission	F1D
Communication Mode	Half-Duplex
Carrier Power Stability	< ± 1.5 dB
Spurious Radiation	< 2 nW
Intermodulation Attenuation	> 60 dB
Electrical Interface	RS-232
Interface Connector	Waterproof IP67, 8-pin ODU
Data Speed of Serial Interface	300 – 38400 bps
Data format	Asynchronous data
Operating temperature	-25 ... +55 °C (Complies with standards) -30 ... +65 °C (Functional) -40 ... +75 °C (Absolute min./max.) -40 ... +85 °C (Storage)
Charging temperature	+5 °C ... +45 °C
Antenna Connector	TNC, 50 ohm, female
Material	Aluminium
Ingress Protection	67
Size H x W x D / Weight	186.5 mm x 83.8 mm x 50 mm/850 g

Values are subject to change without notice.

Distributor:

Manufacturer:



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